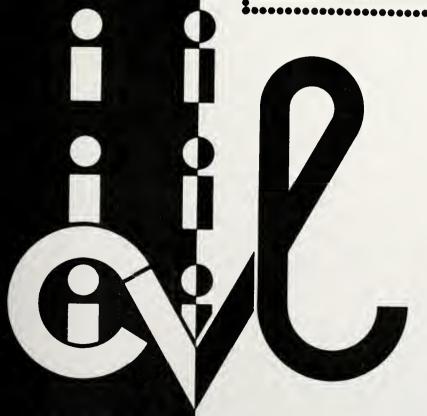
SCHOOL OF CIVIL ENGINEERING

INDIANA DEPARTMENT OF HIGHWAYS

> JOINT HIGHWAY RESEARCH PROJECT JHRP 86/19

TRAFFIC SPEED REPORT NO. 120

David L. Cochran Leroy Gray





PURDUE UNIVERSITY



JOINT HIGHWAY RESEARCH PROJECT JHRP 86/19

TRAFFIC SPEED REPORT NO. 120

David L. Cochran Leroy Gray

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TRAFFIC SPEED REPORT NO. 120

To: Harold L. Michael, Director

From:

Joint Highway Research Project

December 10, 1986

David L. Cochran, Engr. Tech.

Joint Highway Research Project

File: 8 - 3 - 3

Project: C - 36 - 10C

The attached Progress Report No. 120 is the report of the May-August 1986 study of free flow automobile and truck speeds on tangent, level and dry sections of rural interstate, rural 4-lane, rural 2-lane and urban interstate highways in Indiana. This report was prepared by David L. Cochran. Data were collected by David Cochran with the assistance of Leroy Gray.

The results of this report show that all types of vehicles, on all types of Indiana highways, had an average free flow speed of 58.6 mph in 1986. This indicates an increase of 1.4 mph from 1985. If the two urban interstates are excluded, the average speed on all types of rural highways in Indiana becomes 58.4 mph in 1986. This represents an increase of 1.5 mph from 1985.

This report includes a chart, Figure 2 on page 8, that graphically summarizes the results of summer free flow speed monitoring on rural highways since 1977. Table 8, on page 9, summarizes the changes in speed in 1986 from 1985. Table 9, on page 10, summarizes the changes in percent of vehicles exceeding 55, 60 and 65 mph in 1986 from 1985.

Copies of this report will be sent to the Indiana DOH. Copies of this report are requested for release to the Indiana State Police and other highway safety agencies, which is normal procedure for these reports.

Respectfully submitted,

David L. Cochran Traffic Research

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Joint Highway Research Project Project No.: C - 36 - 10C File No.: 8 - 3 - 3

Prepared as Part of an Investigation Conducted by

Joint Highway Research Project Engineering Experiment Station, Purdue University,

in Cooperation with the

Indiana Department of Highways

Purdue University West Lafayette, Indiana 47907 TRAFFIC SPEED RIPORY IS

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This report is an analysis of spot speed observations made during the 1986 summer months of May, June, July and August. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways under favorable conditions. All observations were made during daylight hours.

This is the sixth report with exclusively summer observations since 1975. From 1976 until 1980 (Traffic Speed Reports #95 through #114), 14 primary and secondary stations, as well as another 14 randomly selected stations, were monitored every quarter in conjunction with the 55 mph speed compliance certification program performed for the Federal Highway Administration. Since 1981 the State and Federal studies have been conducted separately.

Fourteen speed monitoring stations were used for the 1986 Traffic Speed Report calculations. These stations are divided into four categories which include: four rural interstate locations, four rural four-lane locations, four rural two-lane locations and two urban interstate locations. These 14 stations are the same as the primary and secondary control stations monitored since 1975 in Indiana. Prior to 1975, only the 12 rural stations were monitored. The locations of the 12 rural stations are essentially the same since 1970 except for stations 4L-32 (formerly number 6 on US 52) and 2L-54 (formerly number 11 on US 31), which changed in 1975.

The speed limit at all the stations is 55 mph. The site locations are given in Table 1 and shown in Figure 1.

The vehicles were classified as Indiana or Non-Indiana passenger cars and light trucks (less than 5000 lbs. gross weight) or heavy trucks (equal to or more than 5000 lbs. gross weight). Computer analysis was performed for each vehicle classification, and for combined passenger cars and combined trucks.

1. Sample Size

At each station, a minimum of 200 vehicles in each direction were recorded using the free flow technique at that location. At least 25 of these vehicles, in each direction, were required to be heavy trucks.

2. Equipment and Field Procedure

The observations for this study were obtained by use of a Kustom Signals Model HR-8 K-Band radar gun. The burst method, using the on/off switch, was used to record speeds. This method was used to avoid early detection by radar detectors. Speeds were taken from within a van parked on the right shoulder of the road or parked in an access driveway to the road. The observers were

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2. Equipment and Flats Process

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Table 1: Monitoring Locations

Rural Interstate RI-06 RI-12 RI-21 RI-34	Highways I-65 I-74 I-69 I-65	7.5 miles North of SR 160, mile marker 22 East of I-465 at mile marker 108.8 1.6 miles South of SR 18, mile marker 62 2.0 miles South of SR 39, mile marker 135
4-Lane Highways		
4L-17	US 52	2.0 miles East of US 231
4L-20	US 41	1.0 mile North of SR 2
4L-21	US 31	0.8 mile North of SR 38
4L - 32	US 30	3.7 miles West of US 421
2-Lane Highways		
2L-18	US 35	1.9 miles East of I-69
2L - 54	US 231	1.1 miles South of SR 234
2L - 79	SR 25	0.7 mile South of Americus
2L-91	SR 43	2.0 miles South of Chalmers
Urban Interstate	Highways	
UI-01	I-94	First bridge East of Burr Street interchange
UI-06	I - 65	Just South of White River, mile marker 116.8

equipped with a CB radio to monitor possible radio notification of speed measurement and of police vehicles in the area. When radar speed recording was detected, and subsequently broadcast on the CB radio, speeds were not taken for at least 5 minutes. This problem occurred primarily on interstate highways.

The accuracy of the radar gun was checked at the beginning and end of each data recording session. The calibration was also confirmed every time the sampling technique was changed, and at other times when deemed necessary.

3. Results of Analysis

The free flow data collected were analyzed and are summarized for each station in Tables Al through Al4 in the Appendix. Tables Al5 through Al8 summarize the free flow data by highway classification. Table Al9 is the summary for all 14 stations. Table A20 is the summary for all 12 rural highway classifications.

The results of the free flow data, categorized by highway classification and vehicle type, are shown in Table 2 through Table 5.

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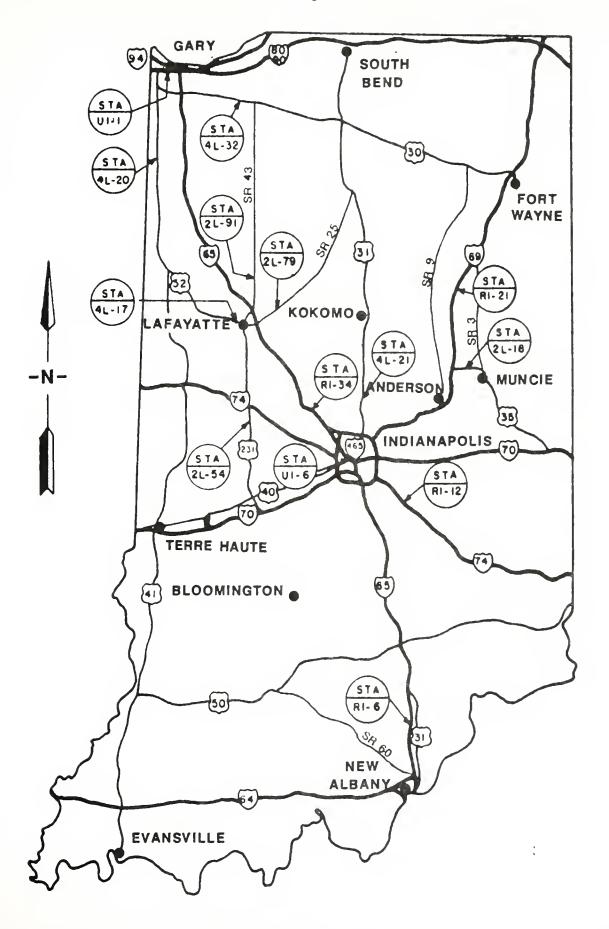


FIGURE 1. LOCATION OF SPEED-STUDY STATIONS

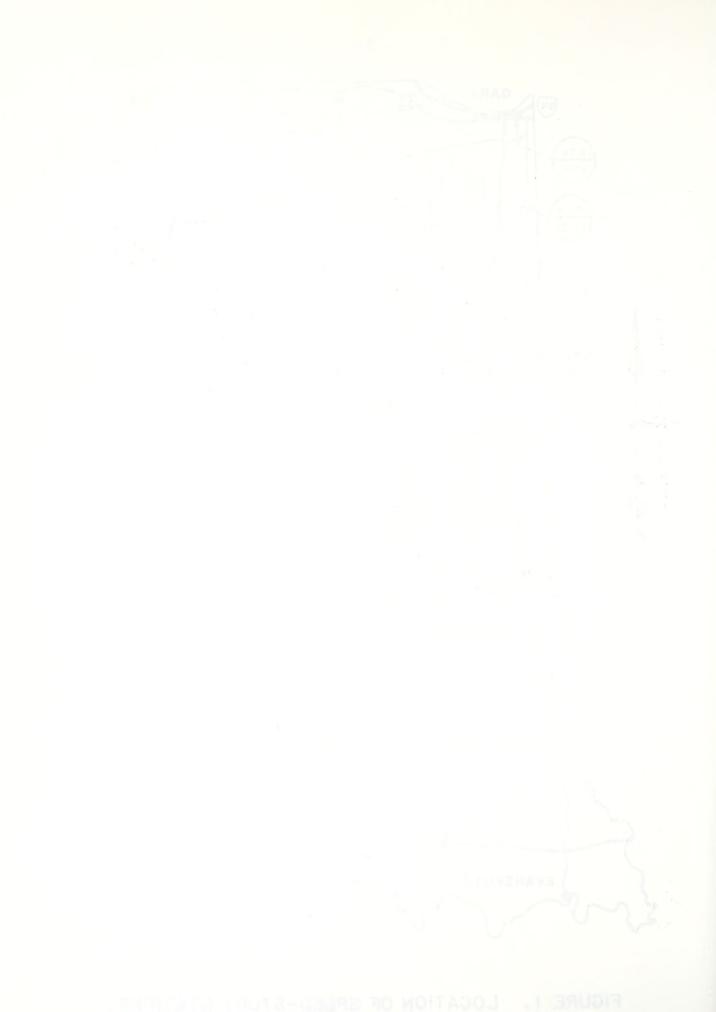


Table 2: Average Speed (MPH)

	Inters		Other Rural		A11	
Passenger Cars:	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Indiana Non-Indiana All Passenger Cars 85 Percentile (All) 15 Percentile (All)	60.1 60.3 60.2 64.3 55.2	60.3 60.9 60.5 64.0 55.8	58.7 59.7 59.0 63.0 53.8	57.1 58.2 57.2 61.5 52.0	58.8 60.2 59.2 63.4 54.0	58.6 60.2 59.0 63.2 53.8
Trucks:						
Less than 5000 lbs. 5000 lbs. or more All Trucks 85 Percentile (All) 15 Percentile (All)	59.7 58.1 59.0 62.8 54.1	59.9 58.7 59.3 62.9 54.7	57.0 56.9 57.0 61.3 51.4	56.5 55.6 56.2 60.4 50.5	58.0 57.3 57.8 62.0 52.4	57.7 57.2 57.5 61.8 52.1
All Vehicles:						
Average 85 Percentile 15 Percentile	59.7 63.8 54.7	60.1 63.8 55.4	58.2 62.5 52.9	56.8 51.4 61.1	58.6 62.9 53.4	58.4 62.7 53.2

Table 3: Percent of Vehicles Exceeding 55 MPH

	Inters	tate	Other 1	Rural	A11	
	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Passenger Cars:						
Indiana	85.3	89.4	76.9	62.5	76.8	75.3
Non-Indiana	88.0	90.8	80.7	67.7	85.2	84.7
All Passenger Cars	86.1	90.0	77.7	63.1	78.9	77.6
Trucks:						
Less than 5000 lbs.	83.8	84.5	61.7	60.8	70.8	68.5
5000 lbs or more	76.1	81.6	65.5	50.8	68.8	67.2
All Trucks	80.2	83.2	63.2	57.1	70.0	68.0
All Vehicles:	83.8	87.5	72.3	60.8	75.5	74.0

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Table 4: Percent of Vehicles Exceeding 60 MPH

	Interstate Ot		Other	her Rural		A11	
	Urban	Rural	4-Lane	2-Lane	Sites	Rural	
Passenger Cars:							
Indiana	44.9	46.2	32.0	22.2	34.4	32.5	
Non-Indiana	47.4	54.2	43.5	27.7	47.4	47.4	
All Passenger Cars	45.6	49.2	34.6	22.8	37.6	36.2	
Trucks:							
Less than 5000 lbs.	43.8	40.0	22.5	16.3	28.5	25.9	
5000 lbs. or more	23.5	28.9	20.7	17.5	22.9	22.8	
All Trucks	34.4	35.0	21.8	16.8	26.2	24.6	
All Vehicles:	41.2	44.1	29.8	20.5	33.3	31.9	

Table 5: Percent of Vehicles Exceeding 65 MPH

	Interstate		Other	Rural	A11	
	Urban	Rural	4-Lane	2-Lane	Sites	Rural
Passenger Cars:						
Indiana	11.2	9.0	7.4	4.7	7.5	6.8
Non-Indiana	8.1	11.0	10.6	7.7	10.0	10.4
All Passenger Cars	10.3	9.7	8.1	5.0	8.1	7.7
Trucks:						
Less than 5000 lbs.	9.2	10.1	5.1	4.6	6.9	6.5
5000 lbs. or more	2.7	5.1	3.1	2.7	3.5	3.7
All Trucks	6.2	7.9	4.4	3.9	5.5	5.4
All Vehicles:	8.7	9.0	6.7	4.5	7.1	6.8

The results of this study, and similar studies conducted since 1977, are tabulated in Table 6. The speed values for 1977 and 1978 were calculated from the tables given in the respective appendices of the reports (nos. 102 and 106) for the 14 locations used in this study. The 15th and 85th percentile speed values for 1979 through 1986 were calculated by interpolation over 1 mph speed intervals from the raw data.

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Table 6: Summary of Spot Speed Observations on Indiana Highways (Free-Moving Vehicles on Level, Tangent Sections)

	P	asseng	er Car	s		Tru	cks		-Comb	ined-
		Non-								
	Ind.	Ind.	A11	A11	Lgt.	Hvy.	A11	All	A11	All
	Mean	Mean	Mean	85%	Mean	Mean	Mean	85%	Mean	85%
2-Lane:										
1977	56.7	56.2	56.7	62.3	56.3	54.7	54.6	60.4	55.4	60.9
1978	56.8	57.1	56.8	61.9	55.4	55.9	55.2	61.1	55.7	61.3
1979	56.4	56.0	56.4	60.5	55.1	55.6	55.6	61.1	55.4	61.4
1980	55.2	58.4	55.3	59.7	55.1	54.9 54.7	54.9	60.2	55.0 54.0	60.2
1981 1982	55.7 55.8	56.2 57.2	55.8 56.0	60.2 60.2	55.0 54.8	54.9	54.8 54.9	59.9 59.7	54.8 54.9	59.9 60.0
1983	56.3	55.8	56.2	60.7	55.0	54.6	54.8	59.3	55.7	60.2
1984	56.5	56.9	56.6	60.9	55.2	55.1	55.2	59.8	56.0	60.4
1985	55.8	55.5	55.7	60.5	55.4	53.9	54.8	55.4	55.4	60.1
1986	57.1	58.2	57.2	61.5	56.5	55.6	56.2	60.4	56.8	61.1
4-Lane:										
1977	57.7	58.7	57.9	62.9	56.0	57.3	56.2	61.9	56.9	62.1
1978	57.5	57.8	57.5	62.5	56.0	57.7	56.9	61.5	56.9	62.1
1979	56.3	57.0	56.5	61.1	55.7	56.4	56.5	62.3	56.1	61.6
1980	55.9	57.4	56.2	60.5	55.3	56.4	55.9	61.4	55.9	60.5
1981	56.5	58.0	56.8	61.1	56.3	56.1	56.2	61.5	56.2	61.0
1982	56.6	57.6	56.8	61.1	55.1	55.7	55.4	61.1	55.4	61.8
1983	57.4	58.0	57.5	61.7	56.4	56.4	56.4	61.7	57.1	61.4
1984	57.7	58.6	57.9	61.9	57.0	56.8	56.9	61.4	57.5	61.7
1985	56 .9	58.3	57.2	61.3	56.3	55.4	55.8	60.6	56.7	61.0
1986	58.7	59.7	59.0	63.0	57. 0	56.9	57. 0	61.3	58.2	62.5
Rural In	itersta	te:								
1977	60.4	60.5	60.4	65.4	58.4	59.7	57.3	63.9	59.3	64.2
1978	59.2	60.3	59.7	63.7	58.9	59.8	59.8	64.8	59.5	64.6
1979	58.4	58.9	58.6	62.4	57.6	59.3	59.5	64.5	58.7	64.0
1980	58.4	59.7	58.8	62.3	57.6	57.2	59.8	62.6	58.3	62.5
1981	57.9	59.6	58.6	62.3	57.4	58.8	58.4	62.9	58.4	62.4
1982	58.9	59.5	58.9	62.2	58.0	58.2	58.1	62.7	58.1	62.1
1983	59.2	60.0	59.5	63.1	58.5	58.7	58.6	62.8	59.2	62.8
1 9 84	59.3	60.5	59.8	63.6	58.4	58.1	58.2	61.8	59.1	62.9
1985	59.2	60.1	59.5	63.6	58.0	57.6	57.7	61.7	58.9	62.9
1986	60.3	60.9	60.5	64.0	59.9	58.7	59.3	62.9	60.1	63.8
Urban In	tersta	te:								
1981	57.7	58.5	57.9	62.2	57.2	56.5	56.8	61.7	57.5	61.5
1 9 82	57.7	57.8	57.7	61.9	56.8	55.7	56.1	61.2	57. 0	62.1
1983	58.7	58.2	58.6	61.9	57.8	57.2	57.4	61.4	58.2	61.6
1984	58.8	58.4	58.7	62.8	58.1	56.4	57.0	60.7	58.0	62.1
1985	59.5	59.3	59.4	63.7	58.4	57.3	57.7	60.9	58.7	62.8
1986	60.1	60.3	60.2	64.3	59.7	58.1	59.0	62.8	59.7	63.8



Figure 2 represents a graphic interpretation of the results from this, and similar studies, since 1977. The speed values plotted in Figure 2 were obtained in the same way as those in Table 6. Only data collected at the 12 rural stations were used to calculate the values in Figure 2.

Table 7 shows the average speeds for all passenger cars, trucks of more than $5000~\rm lbs$. and trucks less than $5000~\rm lbs$. with and without the two urban interstate stations. The urban interstates were first monitored in 1975.

Table 7: Average Speed (MPH)

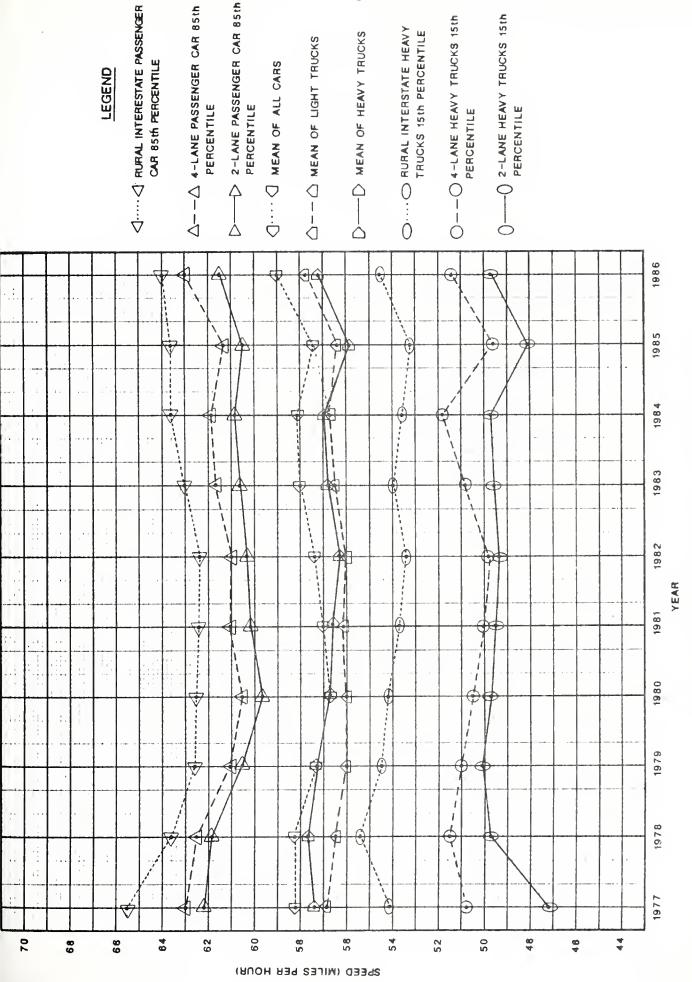
	Passenger Cars			Trucks Less Than 5000 lbs.		Trucks 5000 lbs. or More	
Year	12 Rural Stations	All 14 Stations	12 Rural Stations	All 14 Stations	12 Rural Stations	All 14 Stations	
1977	58.2	58.2	57.7	57.8	57.0	57.1	
1978	58.2	58.2	57.9	57.8	56.6	56.6	
1979	57.1	61.8	57.2	57.0	56.0	56.1	
1980	56.7	56.8	56.8	56.6	56.0	56.1	
1981	57.0	57.1	56.7	56.3	56.1	56.6	
1982	57.2	57.3	55.8	55.9	56.4	56.3	
1983	57.8	57.9	56.5	56.6	56.7	56.8	
1984	58.1	58.3	56.7	56.9	56.9	56.8	
1985	57.4	57.7	56.4	56.7	55.9	56.2	
1986	59.0	59.2	57.7	58.0	57.2	57.3	

4. SUMMARY

Since the mean speeds are almost the same for the 12 rural stations (Table 7) as for the 14 urban and rural stations, there is no reason to expect that the results in Figure 2 would change significantly if the urban interstate stations were included in the analysis. However, for consistency in the analysis and historical reporting, the urban interstate locations are reported only in the various tables.

The 85th percentile, mean, and 15th percentile speed changes on all rural Indiana highways are also illustrated in Figure 2. The average speed of cars, light trucks and heavy trucks have remained virtually the same since 1979. Mean and 85th percentile speeds dropped sharply from the summer of 1973 to to the summer of 1974 due to the implementation of the 55 mph speed limit.

The speeds varied slightly, up and down, from 1975 through 1978; however, some stabilization was realized from 1979 through 1982 (Figure 2). Speeds appeared to increase slightly in 1983 and 1984 above previous levels. A decrease in speeds was observed in 1985 for all categories, except for the 85th percentile speed for passenger cars on rural interstates, where no change occurred. However, all categories appeared to increase sharply in 1986.



8 -

FIG. 2: INDIANA RURAL SPEED TRENDS



The 85th percentile speed for passenger cars on 4-lane highways increased by 1.7 mph (Figure 2) in 1986 from 1985, while 2-lane speed increased by 1.0 mph from 1985. An increase of 0.4 mph in 85th percentile speed was observed in 1986 from 1985 on rural interstates.

The mean speed of all three vehicle categories, on all types of rural Indiana highways, increased in 1986 from 1985 (Figure 2). Passenger cars registered the largest increase at 1.6 mph, while heavy trucks and light trucks increased by 1.3 mph each.

The 15th percentile speed for heavy trucks increased sharply in 1986 from 1985 levels (Figure 2) in all highway categories. The largest increase of 1.8 mph was observed on 4-lane highways, and a 1.6 mph increase occurred on 2-lane highways. The rural interstates increased by 1.3 mph.

A tabulation of speed changes in 1986 from 1985 is listed in Table 8. The urban interstate highways showed speed increases (Table 8) in all three vehicle categories in 1986 from 1985. Light trucks registered the largest increase at 1.3 mph, while passenger cars and heavy trucks increased by 0.8 mph each.

Table 8: Summary of Changes in Speed (MPH) in 1986 from 1985

Speed Category:	All Cars	L Trucks	H Trucks	All Veh.
Mean (Rural Interstate) Mean (4-Lane) Mean (2-Lane) Mean (All Rural) 15th % (All Rural) Median (All Rural) 85th % (All Rural)	+ 1.0 + 1.8 + 1.5 + 1.6 + 1.7 + 1.5 + 1.2	+ 1.9 + 0.7 + 1.1 + 1.3 + 1.4 + 1.5	+ 1.1 + 1.5 + 1.7 + 1.3 + 1.5 + 1.4 + 0.8	+ 1.2 + 1.5 + 1.4 + 1.5 + 1.7 + 1.5 + 1.1
Mean (Urban Interstate) Mean (All-14) 15th % (All-14) Median (All-14) 85th % (All-14)	+ 0.8 + 1.5 + 1.7 + 1.5 + 1.1	+ 1.3 + 1.3 + 1.5 + 1.6 + 1.6	+ 0.8 + 1.1 + 1.2 + 1.2 + 0.9	+ 1.0 + 1.4 + 1.5 + 1.3 + 1.1

All three vehicle categories: passenger cars, light trucks (less than 5000 lbs.) and heavy trucks (greater than 5000 lbs.), showed increases in speed (Table 8) on Indiana rural interstates, rural 4-lane highways and rural 2-lane highways.

The average speed of passenger cars on all types of rural Indiana highways increased (Table 8) by 1.6 mph in 1986 from 1985. The average speed of cars increased by 1.8 mph on 4-lane highways, 1.5 mph on 2-lane highways; while an increase of 1.0 mph was observed on rural interstates. The 85th percentile of passenger cars on all types of rural Indiana highways also increased by 1.2 mph from 1985.

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The average speed of light trucks (less than 5000 lbs.) on all types of rural Indiana highways increased (Table 8) by 1.3 mph in 1986 from 1985. The largest increase in speed of 1.9 mph was observed on rural interstates; while 4-lane highways increased by 0.7 mph. The average speed on 2-lane highways increased by 1.1 mph. The 85th percentile of light trucks on all types of rural Indiana highways increased by 1.5 mph from 1985.

The average speed of heavy trucks (5000 lbs. or more) on all types of rural Indiana highways increased (Table 8) by 1.3 mph in 1986 from 1985. The largest increase in speed of 1.7 mph was noticed on 2-lane highways, followed closely by an increase of 1.5 mph on 4-lane highways. An increase in average speed of 1.1 mph was observed on rural interstates. The 85th percentile of heavy trucks on all types of rural Indiana highways increased by 0.8 mph from 1985.

Table 9: Summary of Changes in Percent Greater Than Speed in 1986 from 1985

		% > 55	% > 60	% > 65
Rural Interstate	All Cars Light Trucks Heavy Trucks All Vehicles	+ 7.8 +14.0 +15.3 +10.6	+ 9.9 +13.2 + 7.0 +10.6	- 0.3 + 4.1 + 2.1 + 1.2
Rural 4-Lane	All Cars Light Trucks Heavy Trucks All Vehicles	+11.4 + 7.3 +12.0 +10.8	+11.1 + 4.5 + 2.2 + 8.4	+ 4.4 + 0.3 + 0.4 + 3.0
Rural 2-Lane	All Cars Light Trucks Heavy Trucks All Vehicles	+12.8 +12.1 +14.0 +12.7	+ 5.8 + 3.2 + 7.9 + 5.3	+ 0.8 + 1.9 + 1.2 + 1.0
Urban Interstate	All Cars Light Trucks Heavy Trucks All Vehicles	+ 4.0 + 9.5 + 5.3 + 5.8	+ 8.4 +15.9 + 6.4 +10.7	+ 0.7 + 3.7 + 0.1 + 1.5
All Rural	All Cars Light Trucks Heavy Trucks All Vehicles	+12.0 +12.2 +12.8 +12.1	+10.0 + 7.5 + 5.2 + 8.7	+ 1.8 + 2.2 + 1.2 + 1.8
All Stations	All Cars Light Trucks Heavy Trucks All Vehicles	+10.7 +12.1 +10.9 +11.0	+ 9.7 + 8.8 + 5.4 + 8.9	+ 1.6 + 2.5 + 0.9 + 1.8

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The mean speed for all vehicles on all types of rural Indiana highways increased (Table 8) in 1986 from 1985 by 1.5 mph. If the urban interstate locations are included in the analysis, the mean speed for all types of vehicles on all types of Indiana highways increased by 1.4 mph in 1986 from 1985.

The 85th percentile speed for all vehicles on all types of rural Indiana highways increased (Table 8) in 1986 from 1985 by 1.1 mph. If the urban interstate locations are included in the analysis, the 85th percentile speed for all types of vehicles on all types of Indiana highways also increased by 1.1 mph in 1986 from 1985.

A summary of changes in percent of vehicles exceeding 55, 60 and 65 mph in 1986 from 1985 is tabulated in Table 9. The highest increase in percent of passenger cars exceeding 55 mph was observed on rural 2-lane highways (Table 9). The largest increase in percent of passenger cars exceeding 60 and 65 mph was noticed on rural 4-lane highways. The smallest increase in percent of passenger cars exceeding 55 and 65 mph occurred on rural interstates; while the lowest percent exceeding 60 mph was observed on rural 2-lane highways.

The largest increase in percent of light trucks exceeding 55, 60 and 65 mph occurred on rural interstates (Table 9). The smallest increase in percent exceeding 55 and 65 mph was noticed on rural 4-lane highways; while the smallest increase in percent exceeding 60 mph was observed on rural 2-lane highways.

The largest increase in percent of heavy trucks exceeding 55 and 65 mph was noticed on rural interstates (Table 9); while the greatest increase in percent exceeding 60 mph occurred on rural 2-lane highways. The smallest increase in percent of heavy trucks exceeding 55, 60 and 65 mph was observed on rural 4-lane highways.

Table 9 indicates that all vehicles on all types of rural Indiana highways are exceeding 55 mph by an additional 12.1 percent in 1986 from 1985. An increase of 8.7 percent of all vehicles are exceeding 60 mph and an increase of 1.8 percent is exceeding 65 mph.

Table 9 also indicates that all types of vehicles on all types of Indiana highways are exceeding 55 mph by an additional 11.0 percent in 1986 from 1985. An increase of 8.9 percent of all vehicles are exceeding 60 mph; while an increase of 1.8 percent is exceeding 65 mph.

Generally speaking, it appears that the speeds, of all types of vehicles on all types of Indiana highways, have returned to the levels observed during the periods from pre-1977 to 1979.

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APPENDIX A

Speed Data (Tables Al to A20)



TABLE Al:SPEED DATA

LOCATION: EAST OF I-65 AT MILE MARKER 14 (TEMPORARY) HIGHWAY: 1-94 STATION: UI-01

TYPE OF SURFACE: ASPHALT NO. OF LANES: 6

WEATHER: OVERCAST

THIS OBSERVATION
DATE: 8/14/86
TIME: 3:31 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 8/13/85 TIME: 12:43 PM

				PASSENGER	NGER CARS	RS					TRUCKS		
		ALL		INDIANA	 ANA	I-NON	NON-INDIANA	I &	ALL	<>>0005>	O LBS.	>2000	0 LBS.
OBSERVATION	LON	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH)	303 57.53 3.673	320 59.50 4.111	132 56.64 3.674	169 59.00 4.096	171 58.21 3.533	151 60.07 4.067	323 57.08 3.893	276 58.29 4.186	75 57.51 3.379	141 58.90 4.820	248 56.95 4.033	135 57.64 3.297
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO	24 MPH 39 MPH 44 MPH 49 MPH 59 MPH 64 MPH 64 MPH 79 MPH 79 MPH 88 MPH 89 MPH	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0.00 0.00 0.09 11.3 49.1 99.1 100.0 100.0	0. 0. 0. 0. 24.2 76.5 100.0 100.0 100.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0. 0. 0. 0. 11.1 64.3 95.9 100.0 100.0	0. 0. 0. 0. 0. 8.6 43.7 88.1 98.7 100.0 100.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0. 0. 0. 0. 17.3 17.3 73.3 98.7 100.0 100.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0. 0. 0. 0. 4.0 22.6 75.8 96.8 100.0 100.0	0. 0. 0. 0. 1.5 14.8 75.6 98.5 100.0 100.0
DIRECTION: EB OF VEHICLES AVERAGE S DIRECTION: WB OF VEHICLES AVERAGE S	EB SSPEED WB SS	171 57.51 132 57.55	143 60.00 177 59.10	66 56.76 66 56.53	87 59.30 82 58.68	105 57.98 66 58.58	56 61.09 95 59.46	180 57.07 143 57.09	126 58.98 150 57.70	50 57.24 25 58.04	64 59.53 77 58.38	130 57.01 118 56.89	62 58.42 73 56.99

A2:SPEED DATA TABLE LOCATION: SOUTH OF WHITE RIVER AT MILE MARKER 116.8 HIGHWAY: I-65 STATION: UI-06

WEATHER: CLEAR-SUNNY TYPE OF SURFACE: CONCRETE NO. OF LANES: 6 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119) DATE: 8/20/85 TIME: 1:23 PM TIME: 12:28 PM DATE: 7/29/86 THIS OBSERVATION

		 	 	PASSE	SSENGER CA	CARS) 	TRUCKS		
		ALL	ALL		 ANA	I-NON	INDIANA	1	ALL	<5000	O LBS.	>5000) LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 485 AVE. SPEED (MPH) 60.63 STANDARD DEVIATION 4.964	VEHICLES (MPH)	485 60.63 1 4.964	435 60.65 4.992	351 60.58 5.073	377 60.59 5.142	134 60.79 4.679	58 61.00 3.889	216 58.57 4.213	210 59.87 4.701	108 58.96 4.445	119 60.69 4.586	108 58.18 3.950	91 58.79 4.656
		0	0	0		0	0,0	0.0	0.0	0.0	0	0.	0.0
		0	0	0	0	0	· •		. 0	0		0	0
		0	0	0.	0	0	0	0.	0	0	0	0.	0
	39 MPH	0	0	0	0	0.	0	0.	0	0	0	0.	0
PERCENT	44 MPH	0.	0	0	0	0	0	0.	0.5	0	0.8	0	0
OF	49 MPH	0.8	I • I	1.1	1.3	0	0.	0.9	1.0	0	0.8	1.9	1.1
VEHICLES	54 MPH	10.3	10.1	11.7	10.9	6.7	5.2	15.7	13.3	14.8	9.2	16.7	18.7
TRAVELING	59 MPH	42.9	42.8	43.3	43.5	41.8	37.9	62.5	42.9	58.3	35.3	66.7	52.7
LESS THAN	64 MPH	79.8	78.4	79.2	79.0	81.3	74.1	7.06	84.3	88.0	79.0	93.5	91.2
OR	H4W 69	96.1	92.6	0.96	95.0	96.3	100.0	99.1	98.1	99.1	97.5	99.1	98.9
EQUAL TO	74 MPH	99.2	99.1	99.1	98.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	79 MPH	100.0	8.66	100.0	7.66	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION:	SB) } 					1 1 1 1 1 1	 		
# OF VEHICLES	ES	242	202	177	183	65	19	131	95	69	55	62	
AVERAGE	E SPEED	61.13	60.12	60.74	60.07	62.20	89.09	59.25	59.11	59.35	60.25	59.15	57.53
# OF VEHICLES	E S E	243	233	174	194	69	39	85	115	39	79	97	51
AVERAGE	E SPEED	60.14	61.10	60.41	61.09	95.69	61.15		60.50	58.28	61.06	56.87	59.78
		1			1			1		1	1		

45 59.38

57.36

59.49 39

57.88

59.43

102 57.52

61.47 81

92 59.87

61.53 87

59.08 19

168

59.53 159

AVERAGE SPEED

OF VEHICLES

TABLE A3:SPEED DATA

LOCATION: 7.5 MILES NORTH OF SR 160, MILE MARKER 22 HIGHWAY: I-65 STATION: RI-06

WEATHER: BRIGHT-CLEAR TYPE OF SURFACE: ASPHALT NO. OF LANES: 4

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)

TIME: 4:24 PM DATE: 8/1/85

TIME: 12:17 PM DATE: 8/12/86 THIS OBSERVATION

				PASSENGER		CARS					TRUCKS		
		ALL	ALL	INDIANA	ANA	NON	NON-INDIANA	1 V	ALL	<5000	O LBS.	>5000	O LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 325 AVE. SPEED (MPH) 59.74 STANDARD DEVIATION 4.414	VEHICLES (MPH) EVIATION	325 59.74 14.414	354 60.78 4.343	163 59.34 4.425	182 60.52 4.303	162 60.14 4.379	172 61.05 4.380	196 57.72 3.778	194 59.15 4.611	68 57.79 4.297	100 59.13 5.063	128 57.69 3.488	94 59.18 4.103
	24 MPH	0	0	0.	0.0	0	0.0	0.	0.	0.	0.0	0	0
	29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	34 MPH	0	0	0	0	0	0	0.	0	0	0	0	0
		0	0	0	0.	0	0	0	0	0	0	0	0
PERCENT		0	0	0	0	0	0	0	0	0	0	0	0
OF	49 MPH	0.9	0.3	1.2	0.5	9.0	0	1.5	1.5	2.9	2.0	0.8	1.1
VEHICLES	54 MPH	9.5	4.5	11.0	4.4	8.0	4.7	18.4	11.3	20.6	14.0	17.2	8.5
TRAVELING	59 MPH	53.2	41.2	57.1	0.44	40.4	38.4	72.4	56.2	66.2	96.0	75.8	56.4
LESS THAN		84.0	81.4	87.1	83.0	80.9	79.7	95.9	84.5	92.6	81.0	96.1	88.3
OR	69 MPH	7.66	96.3	7.66	7.96	4.66	95.9	99.5	6°26	98.5	97.0	100.0	98.9
EQUAL TO	74 MPH	100.0	7.66	100.0	100.0	100.0	98.8	100.0	100.0	100.0	100.0	100.0	100.0
	79 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION:	NB])) 			
# OF VEHICLES	ES	166	186	96	95	70	91	76	110	36	61	28	67
AVERAGI	AVERAGE SPEED	59.94	60.12	59.53	59.59	60.50	89.09	57.95	58.95	57.72	58.90	58.09	29.00
DIRECTION: 5	- 1	,	-	,	0	C	ć	(ò	c	C	0	U /

TABLE A4:SPEED DATA

HIGHWAY: I-74

LOCATION: EAST OF I-465 AT MILE MARKER 108.8

NO. OF LANES: 4

STATION: RI-12

TYPE OF SURFACE: ASPHALT

WEATHER: OVERCAST-BRIGHT

THIS OBSERVATION
DATE: 6/5/86

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 7/17/85
TIME: 12:10 PM

				PASSE	PASSENGER CARS	RS					TRUCKS		
		ALL	I I	INDIANA	ANA	I-NON-I	NON-INDIANA	. ∢	ALL	<500	<5000 LBS.	>5000	1
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH)	345 59.41 4.719	383 60.28 4.065	235 59.34 4.625	243 59.93 4.102	110 59.56 4.934	140 60.90 3.939	202 57.71 4.504	228 59.71 4.411	86 57.49 4.806	129 60.74 4.614	116 57.87 4.280	99 58.36 3.748
	HQW 76										0	0	0
				• •			0	0	0	0	0	0	•
		0	0	0	0	0	0	0	0	0	0	0	
		.0	0	0		0	0	0	0	0	0	0	0
PERCENT	44 MPH	0.3	0.3	0.4	0		0.7	0.	0.	0	0	0	0
OF		0.9	0.8	0.9	0.8		0.7	0.4	6.0	4.7	0.8	3.4	1.0
VEHICLES	54 MPH	14.2	6.3	13.6	7.4		4.3	22.8	9.2	22.1	5.4	23.3	14.1
TRAVELING	59 MPH	54.8	41.5	55.7	48.1		30.0	67.8	51.8	8.69	45.6	7.99	63.6
LESS THAN	64 MPH	84.9	87.7	85.1	89.3		85.0	95.6	88.2	90.7	83.7	0.46	93.9
OR		98.3	97.9	98.7	6.76		6.76	99.5	97.8	100.0	96.1	99.1	100.0
EQUAL TO	74 MPH	7.66	7.66	9.66	9.66		100.0	100.0	99.1	100.0	7.86	100.0	100.0
	79 MPH	100.0	7.66	100.0	9.66		100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 MPH	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 MPH	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION:	EB					 	 	 	 				
# OF VEHICLES	ES	177	181	109	107	89	74	93	122	39		54	58
AVERAGE S	AVERAGE SPEED	59.62	60.52	59.61	59.99	59.63	61.30	57.09	60.10	57.28	61.14	56.94	58.95
# OF VEHICLES	ES №	168	202	126	136	42	99	109	106	47	65	62	41
AVERAGE	F CDFFD	01 03	60 07	50 11	000	07 03	17 07	20 07	50 25	77 63	76 07	07 05	57 54

TABLE A5:SPEED DATA

LOCATION: 1.6 MILES SOUTH OF SR 18, MILE MARKER 62 HIGHWAY: I-69 STATION: RI-21

WEATHER: OVERCAST TYPE OF SURFACE: ASPHALT NO. OF LANES: 4

THIS OBSERVATION
DATE: 6/12/86
TIME: 1:44 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 9/3/85
TIME: 5:44 PM

			 	PASSENGER	NGER CARS	RS					TRUCKS		
		ALL	1	INDIANA	ANA	I-NON	-INDIANA	I &	ALL	<5000	O LBS.	>5000) LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH)	321 59.34 4.496	347 60.05 4.102	233 59.04 4.569	259 60.07 3.968	88 60.14 4.219	88 60.02 4.498	208 57.09 4.253	207 58.79 3.659	71 58.01 5.378	127 59.07 3.656	137 56.61 3.458	80 58.35 3.643
	24 MPH	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	29 MPH	0.	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0.	0.	0.	0	0	0	•	•
		•	0	.0	0.0	• 0	•	0 0	•	0.	· 0	.	• •
PERCENT	44 MPH	0.3	° -	0.4	0 -	• •	- -	ر. د د	• •	л • 5 ф	• c) - C	• c
VEHICLES	49 MPH	11.8	1.2 8.6	2.1	1.2	5.7	10.2	24.0	13.5	22.5	11.0	24.8	17.5
TRAVELING		52.3	43.5	53.6	43.2	48.9	44.3	72.1	54.6	59.2	51.2	78.8	0.09
LESS THAN	64 MPH	88.5	87.3	88.8	86.9	87.5	88.6	96.2	94.2	90.1	92.9	99.3	96.3
OR	HAW 69	98.1	4.66	98.7	100.0	9.96	97.7	0.66	99.5	97.2	99.5	100.0	100.0
EQUAL TO	74 MPH	7.66	100.0	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	79 MPH	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION:	NB)))) 						
# OF VEHICLES	ES	160	164	113	114	747		100	101		(39
AVERAGE		59.81	60.49	59.49	60.45	09.09	60.58	57.76	59.50	58.63	59.24	5/.35	29.90
# OF VEHICLES	(1)	161	183	120	145	41		108	106		65		41
AVERAGE	E SPEED	58.88	59.67	58.63	59.77	59.61	59.29	56.46	58.12	5/.51	58.91	55.8/	20.88

TABLE A6:SPEED DATA

HIGHWAY: I-65 LOCA

STATION: RI-34

LOCATION: 2 MILES SOUTH OF SR 39, MILE MARKER 135

WEATHER: BRIGHT-SUNNY TYPE OF SURFACE: ASPHALT NO. OF LANES: 4 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 7/23/85
TIME: 2:29 PM THIS OBSERVATION
DATE: 5/22/86
TIME: 11:06 AM

i			PASSE	ENGER CA	CARS]			TRUCKS		
ALL		Ä	101	INDIANA	I-NON	NON-INDIANA	A	ALL	<5000	0 LBS.	>500	5000 LBS
PRES- LAST ENT LAST	RES- ENT	LAST	į	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 372 409 254 AVE. SPEED (MPH) 59.62 61.00 59.28 STANDARD DEVIATION 4.261 4.145 4.298	409 1.00 59	254 59.28 4.298	İ	243 60.77 4.290	118 60.36 4.101	166 61,34 3,911	204 58.37 4.487	210 59.61 3.757	77 58.65 4.994	109 60.45 4.093	127 58.20 4.162	101 58.71 3.135
0 0 0 0	 	000	1		000	000	000	000	000	000	000	000
000		000		00		000	00	00	000	000	00	000
0.04.6		0.8		0.4	0.	0.	0.5	0.	0.	0.	0.8	0.
47.8 36.2 53.5		53.5		39.5	35.6	31.3	60.8	54.8	58.4	46.8	62.2	63.4
95.6		98.8		95.1	99.2	96.4	98.5	98.6	97.4	97.2	99.2	100.0
100.0 99.8 100.0 100.0		100.0		100.0	100.0	99.4	99.5	100.0	98.7	100.0	100.0	100.0
100.00 1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
191	191	126	i	103	1	j	100	96		1	56	1 4
59.47 60.97 58.94	.97 58	58.94		60.50	60.44	61.51	58.94	59.24	58.82	59.82	59.04	58.65
177 218 128 59.80 61.03 59.62	218 1.03 59	128 59.62		140 60.96	49	78	104 57.82	112	33	59 60.98	71 57.53	53

ABLE A7:SPEED DATA

LOCATION: 2.0 MILES EAST OF US 231 HIGHWAY: US 52 STATION: 4L-17 WEATHER: OVERCAST TYPE OF SURFACE: ASPHALT NO. OF LANES: 4

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 7/22/85
TIME: 2:10 PM THIS OBSERVATION
DATE: 5/21/86
TIME: 10:00 AM

			PASSENGER	NGER CARS	RS			 		TRUCKS		
	ALL		INDIANA	ANA	I-NON	NON-INDIANA	i 4	ALL	<500	<5000 LBS.	>5000	LBS.
	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
	NUMBER OF VEHICLES 387 AVE. SPEED (MPH) 55.70 STANDARD DEVLATION 4.940	404 58.25 4.856	330 55.65 4.993	366 58.24 4.851	57 55.98 4.654	38 58.39 4.968	215 52.87 6.643	228 56.62 5.576	125 54.62 5.379	176 56.91 5.305	90 50.43 7.449	52 55.65 6.371
	0.	0.	0.	0.	0	0.0	0	0.	0.0	0	0	0.
	0	0.	0	0	0	0	0	0	0	0	0	0
	0.3	0	0.3	0	0	0.	0.5	0	0	0	1.1	0
	0.5	0	9.0	0	0	0	2.3	0.4	0	0	9.5	1,9
	2.3	0.2	2.7	0.3	0.	0	17.2	2.6	4.8	1.1	34.4	7.7
	10.9	3.0	10.9	3,3	10.5	0	25.6	11.0	13.6	8.5	42.2	19.2
MPH	36.4	20.3	37.3	19.9	31.6	23.7	58.1	30.7	52.0	31.3	66.7	28.8
	79.1	61.4	78.8	61.5	80.7	60.5	86.0	73.2	84.8	72.2	87.8	76.9
	97.2	8.06	97.0	91.0	98.2	89.5	7.96	92.1	0.96	6.06	97.8	96.2
	100.0	98.8	100.0	9.86	100.0	100.0	99.5	9.66	99.5	7.66	100.0	100.0
MPH	100.0	100.0	100.0	100.0	100.0	100.0	99.5	100.0	99.5	100.0	100.0	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
i .		700	021	000	33	o -	7/0	511	63	α α	3.5	77
	54,59	58.68	54.56	58.63	54.86	59.22	53.26	57.06	53.90	57.31	52.00	56.26
	195	177	160	157	35	20 57.65	121 52.57	113	63 55 . 33	88 56.51	58 49.57	25 55.00
				,								

TABLE A8:SPEED DATA

LOCATION: 1.0 MILE NORTH OF SR 2 HIGHWAY: US 41 STATION: 4L-20

TYPE OF SURFACE: ASPHALT

WEATHER: SUNNY NO. OF LANES: 4

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 8/14/85
TIME: 12:36 PM THIS OBSERVATION
DATE: 5/23/86
TIME: 1:23 PM

		 	 	PASSENGER	1	CARS] 		 		TRUCKS	 	
		ALL	I	INDIANA	ANA	NON-I	NON-INDIANA	1 ¥	ALL	<5000	O LBS.	>5000	0 LBS.
OBSERVATION	rion	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 277 AVE. SPEED (MPH) 58.03 STANDARD DEVIATION 4.611	VEHICLES (MPH) EVIATION	277 58.03 4.611	319 59.78 5.350	194 57.60 4.388	205 60.00 5.719	83 59.04 4.977	114 59.39 4.611	225 56.64 5.055	230 56.33 4.778	120 57.02 5.240	121 57.01 4.716	105 56.20 4.823	109 55.58 4.756
	24 MPH 29 MPH 34 MPH	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
PERCENT OF VEHICLES		0. 2.5 21.3	0.9 16.0	0. 3.1 22.2	0. 1.0 16.6	0. 1.2 19.3	0. 0.9 14.9	0. 7.1 33.8	1.3	0. 7.5 29.2	0. 5.0 31.4	6.7	2.8 10.1 38.5
TRAVELING LESS THAN OR EQUAL TO	59 MPH 64 MPH 74 MPH 79 MPH 84 MPH 89 MPH	65.7 90.6 98.2 99.6 100.0	49.2 82.8 95.6 98.7 99.4 100.0	69.1 93.3 99.0 100.0 100.0 100.0	48.3 80.0 94.6 98.0 99.0 100.0	57.8 84.3 96.4 98.8 100.0 100.0	50.9 87.7 97.4 100.0 100.0 100.0	70.7 94.2 99.1 100.0 100.0 100.0	77.0 95.2 99.1 99.6 100.0	66.7 92.5 99.2 100.0 100.0 100.0	73.6 93.4 99.2 99.2 100.0	75.2 96.2 99.0 100.0 100.0	80.7 97.2 99.1 100.0 100.0 100.0
DIRECTION: NB OF VEHICLES AVERAGE S DIRECTION: SB OF VEHICLES AVERAGE S	CTION: NB VEHICLES AVERAGE SPEED CTION: SB VI AICLES AVERAGE SPEED	150 57.66 127 58.47	164 59.40 155 60.18	104 57.44 90 57.78	116 59.74 89 60.34	46 58.15 37 60.13	48 58.58 66 59.97	97 55.24 128 57.69	115 55.04 115 57.62	60 55.93 60 58.10	62 56.32 57.73	37 54.11 68 57.34	53.55 53.55 57.50

TABLE A9:SPEED DATA

LOCATION: 0.8 MILE NORTH OF SR 38 HIGHWAY: US 31 STATION: 4L-21

TYPE OF SURFACE: ASPHALT NO. OF LANES: 4

WEATHER: CLEAR-BRIGHT

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 8/18/85
TIME: 2:14 PM THIS OBSERVATION
DATE: 8/13/86
TIME: 10:32 AM

				PASSENGER	NGER CARS	RS					TRUCKS		
		ALL		INDIANA	ANA	NON-I	NON-INDIANA	- V	ALL	<500	<5000 LBS.	>5000	0 LBS.
OBSERVATION	NC	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 452 AVE. SPEED (MPH) 57.52 STANDARD DEVIATION 4.489	HICLES MPH) IATION	452 57.52 4.489	382 58.59 4.551	364 57.32 4.477	317 58.46 4.288	88 58.36 4.462	65 59.25 5.654	179 56.18 5.069	186 56.76 4.541	98 57.03 5.008	125 56.56 4.532	81 55.16 4.981	61 57.18 4.570
24 29 34 39 96 0F 0F VEHICLES 54 VEHICLES 54 TRAVELING 59 LESS THAN 64 0R 69 0R 69 84	4 MPH 4 MPH 6 MPH 7 MPH 7 MPH 8 MPH 9 MPH	0. 0. 0. 0. 4.6 24.6 68.1 99.3 100.0	0. 0. 0. 0. 17.5 59.4 93.2 98.7 99.5 100.0	0. 0. 0. 0. 4.9 26.6 69.5 94.5 99.2 100.0	0. 0. 0. 2.8 16.7 60.3 94.3 99.7 99.7	0. 0. 0. 3.4 15.9 62.5 90.9 100.0 100.0	0. 0. 0. 0. 1.5 21.5 55.4 87.7 93.8 98.5 98.5	0. 0. 0. 0.6 9.5 39.1 74.3 92.7 99.4 100.0	0. 0. 0.5 0.5 5.9 29.0 72.0 96.8 100.0 100.0	0. 0. 0. 0. 5.1 33.7 68.4 99.0 100.0	0. 0. 0. 0. 0. 5.6 29.6 74.4 97.6 100.0 100.0	0. 0. 0. 1.2 14.8 45.7 81.5 95.1 100.0 100.0	0. 0. 0. 1.6 6.6 27.9 67.2 95.1 100.0
DIRECTION: NB # OF VEHICLES AVERAGE S DIRECTION: SB # OF VEHICLES AVERAGE S	NB S SPEED SB S SPEED	207 56.30 245 58.55	183 58.92 199 58.29	174 56.13 190 58.40	145 58.79 172 58.17	33 57.21 55 59.06	38 59.39 27 59.04	68 53.69 111 57.71	90 55.92 96 57.55	31 54.19 67 58.34	55.77 69 57.20	37 53.27 44 56.75	34 56.18 27 58.44

TABLE A10:SPEED DATA

LOCATION: 3.7 MILES WEST OF US 421 HIGHWAY: US 30 STATION: 4L-32 WEATHER: OVERCAST TYPE OF SURFACE: ASPHALT NO. OF LANES: 4

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 9/4/85 TIME: 11:08 AM THIS OBSERVATION
DATE: 8/14/86
TIME: 11:34 AM

				PASSENGER	NGER CARS	RS		 			TRUCKS		
		ALL		INDIANA	ANA	NON-I	NON-INDIANA	∢	ALL	<5000	O LBS.	>5000) LBS.
OBSERVATION	rion	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 276 AVE. SPEED (MPH) 57.80 STANDARD DEVIATION 4.437	VEHICLES (MPH)	276 57.80 4.437	315 59.47 4.074	208 57.35 4.491	210 58.82 3.985	68 59.18 3.992	105 60.78 3.952	269 57.35 4.678	200 58.38 4.709	96 56.81 5.629	103 57.83 5.174	173 57.64 4.043	97 58.96 4.108
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO	24 MPH 29 MPH 34 MPH 44 MPH 49 MPH 54 MPH 64 MPH 74 MPH 74 MPH 84 MPH 84 MPH 88 MPH	0. 0. 0. 0. 7 2. 2 21. 4 66. 7 94. 6 100. 0 100. 0	0. 0. 0. 0.3 9.5 99.4 100.0 100.0	0. 0. 0. 1.0 2.9 26.4 70.2 95.7 100.0 100.0	0.00.00 0.00 0.00 0.00 11.00 60.50 99.50 100.00 100.00	0. 0. 0. 0. 5.9 55.9 91.2 98.5 100.0	0. 0. 0. 0. 35.2 83.8 83.8 99.0 100.0	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0. 0. 0. 0. 2.5 19.5 57.0 91.5 98.5 100.0	0. 0. 0. 2.1 2.1 9.4 31.3 74.0 92.7 97.9 100.0	0. 0. 0. 0. 4.9 27.2 63.1 90.3 97.1 100.0	0. 0. 0. 0. 1.2 24.9 70.5 94.2 100.0 100.0	0. 0. 0. 0. 11.3 50.5 92.8 100.0 100.0
DIRECTION: EB # OF VEHICLES AVERAGE S DIRECTION: WB # OF VFTICLES AVERAGE S	EB ES E SPEED WB ES	142 58.05 134 57.54	158 59.50 157 59.45	104 57.58 104 57.13	105 58.90 105 58.74	38 59.34 30 58.97	53 60.70 52 60.87	142 58.24 127 56.35	97 58.24 103 58.51	58.34 40 54.67	48 57.71 55 57.95	86 58.17 87 57.12	49 58.76 48 59.17

TABLE All:SPEED DATA

LOCATION: 1.9 MILES EAST OF I-69 HIGHWAY: US 35 STATION: 2L-18

TYPE OF SURFACE: ASPHALT NO. OF LANES: 2

WEATHER: CLEAR-BRIGHT

THIS OBSERVATION
DATE: 8/13/86
TIME: 1:11 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 7/30/85
TIME: 12:43 PM

)) 			PASSENGER	1	CARS				i ! ! !	TRUCKS	 	1
		ALL		INDIANA	ANA	NON-I	NON-INDIANA	. ∢	ALL	<5000	O LBS.	>2000	O LBS.
OBSERVATION	LION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 361 AVE. SPEED (MPH) 53.55 STANDARD DEVIATION 5.377	VEHICLES (MPH) EVIATION	361 53.55 5.377	341 57.53 5.409	324 53.62 5.380	306 57.56 5.424	37 52.92 5.382	35 57.34 5.352	202 52.13 5.382	203 55.90 5.067	113 53.76 4.819	117 56.60 4.725	89 50.06 5.371	86 54.94 5.380
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO	24 MPH 29 MPH 34 MPH 44 MPH 49 MPH 54 MPH 64 MPH 74 MPH 74 MPH 88 MPH 79 MPH 88 MPH 89 MPH	0. 0. 3.9 22.4 56.2 88.4 97.5 98.9 100.0	0. 0. 0. 0.6 5.6 27.9 66.3 88.3 97.4 100.0	0. 0. 0. 4.0 21.9 56.2 88.0 97.5 99.1 100.0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0. 0. 0. 2.7 27.0 27.0 56.8 91.9 97.3 100.0	0. 0. 0. 11.4 28.6 60.0 88.6 100.0 100.0	0. 0. 0. 10.4 24.3 65.3 99.5 100.0 100.0	0. 0. 0. 2.5 11.3 35.5 80.3 95.6 99.5 100.0	0. 0. 0. 3.5 15.0 57.5 86.7 99.1 100.0 100.0	0. 0. 0. 0. 1.7 6.8 28.2 80.3 94.9 99.1 100.0 100.0	0. 0. 0. 19.1 36.0 75.3 97.8 100.0 100.0 100.0	0. 0. 0. 3.5 17.4 45.3 80.2 96.5 100.0 100.0
DIRECTION: E # OF VEHICLES AVERAGE DIRECTION: W # OF VEHICLES AVERAGE	CTION: EB VEHICLES AVERAGE SPEED CTION: WB VEHICLES AVERAGE SPEED	149 54.52 212 52.86	147 57.31 194 57.71	136 54.71 188 52.82	131 57.21 175 57.81	13 52.46 24 53.17	16 58.06 19 56.74	110 53.15 92 50.90	93 56.08 110 55.75	54.43 54.43 53.06	53 56.85 64 56.39	51.73 51.73 37 47.70	40 55.05 54.85

TABLE A12:SPEED DATA

LOCATION: 1.1 MILES SOUTH OF SR 234 HIGHWAY: US 231 STATION: 2L-54

WEATHER: SLIGHTLY OVERCAST TYPE OF SURFACE: ASPHALT NO. OF LANES: 2

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 9/5/85
TIME: 3:11 PM THIS OBSERVATION
DATE: 6/23/86
TIME: 10:45 AM

	 		 - - - - -	PASSENGER	NGER CARS	RS	1]			TRUCKS	1 	
		ALL	ALL	INDIANA	ANA	NON-I	NON-INDIANA	1 &	ALL	<500	<5000 LBS.	>500	5000 LBS.
l I	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH) EVIATION	396 58.16 5.563	303 56.87 5.106	383 58.13 5.640	261 56.76 5.105	13 59.00 2.236	42 57.55 5.124	202 57.07 5.339	223 56.14 5.345	129 57.32 5.290	146 56.08 5.421	73 56.63 5.433	77 56.26 5.230
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO	24 MPH 29 MPH 34 MPH 44 MPH 49 MPH 54 MPH 64 MPH 64 MPH 74 MPH 74 MPH 78 MPH 88 MPH 88 MPH	0. 0. 0. 1.5 4.0 20.7 64.4 89.1 97.2 98.7 98.7	0. 0. 0. 0. 7 6. 3 29. 0 73. 3 93. 7 98. 3 99. 7 100. 0	0. 0. 0. 1.6 4.2 21.4 64.5 88.8 97.1 98.7 99.5	0. 0. 0. 0.8 6.5 30.3 73.2 93.9 98.9 98.9 99.6	0. 0. 0. 0. 0. 0. 61.5 100.0 100.0 100.0	0. 0. 0. 0. 4.8 21.4 73.8 92.9 95.2 100.0	0. 0. 0. 0. 2.0 7.4 24.8 68.3 93.1 98.0 100.0	0. 0. 0. 0. 1.8 9.4 35.9 75.3 92.8 99.6 100.0	0. 0. 0. 1.6 5.4 21.7 65.9 92.2 97.7 100.0	0. 0. 0. 0. 2.1 10.3 34.9 77.4 92.5 99.3 100.0	0. 0. 0. 11.0 30.1 72.6 94.5 98.6 100.0	0. 0. 0. 1.3 7.8 37.7 71.4 93.5 100.0
DIRECTION: N # OF VEHICLES AVERAGE DIRECTION: S # OF VFHICLES AVERAGE	NB ES E SPEED SB ES E SPEED	171 58.68 225 57.76	158 56.95 145 56.79	167 58.64 216 57.73	140 56.76 121 56.77	60.50	18 58.44 56.88	84 58.14 118 56.31	106 55.62 117 56.62	49 58.00 80 56.90	74 55.42 72 56.76	35 58.34 38 55.05	32 56.09 45 56.38

TABLE A13:SPEED DATA

LOCATION: 0.7 MILES SOUTH OF AMERICUS HIGHWAY: SR 25

TYPE OF SURFACE: ASPHALT NO. OF LANES: 2

STATION: 2L-79

WEATHER: HAZY

THIS OBSERVATION
DATE: 6/4/86
TIME: 12:16 PM

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 8/16/85 TIME: 10:03 AM

				PASSE	PASSENGER CA	CARS) 	TRUCKS	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		ALL	.T.	INDIANA	ANA	NON-1	INDIANA	1 4	 ALL	<500	5000 LBS.	>5000	O LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 436 AVE. SPEED (MPH) 54.10 STANDARD DEVIATION 4.820	VEHICLES (MPH) EVIATION	54.10 1 4.820	331 56.17 4.103	399 54.06 4.652	311 56.14 4.088	37 54.43 6.427	20 56.70 4.402	191 53.73 4.259	178 54.63 4.916	114 54.50 4.163	111 55.37 5.259	52.58 4.165	67 53.40 4.034
	24 MPH 29 MPH 34 MPH 39 MPH	0000	0000	000-	0000	0000	0000	0000	0000	0000	0000	000-	0000
PERCENT OF			, n o c	2.3	0.3	13.5	0000	2.1	2.8	9.6	2.7	3.9	3.0
TRAVELING LESS THAN OR		97.9 99.8 99.8	99.4	99.7 99.7 99.7	99.4	46.0 81.1 94.6 100.0	75.0 95.0 100.0	95.8 99.0 99.5	88.2 97.8 98.3	46.2 93.9 98.2 99.1	85.6 96.4 97.3	98.7 100.0 100.0	92.5 100.0 100.0
EQUAL TO	74 MPH 79 MPH 84 MPH 89 MPH	100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0 100.0	99.5 100.0 100.0 100.0	100.0 100.0 100.0	99.1 100.0 100.0 100.0	100.0 100.0 100.0	100.0	100.0 100.0 100.0
DIRECTION: N # OF VEHICLES AVERAGE DIRECTION: S	NB ES ESPEED SB	182	154	151	143	31	11 57.18	93	90	54.71	58.57	37 52.08	32 54.56
# OF VEHICLES AVERAGE	F=7 F=7	254 54.21	177	248 54.27	168 55.80	6 51.50	9	98	88 54.03	58 54.29	53 55.15	40 53.05	35

TABLE A14:SPEED DATA

LOCATION: 2.0 MILES SOUTH OF CHALMERS HIGHWAY: SR 43 STATION: 2L-91

WEATHER: SUNNY-CLEAR TYPE OF SURFACE: ASPHALT NO. OF LANES: 2

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: 7/22/85
TIME: 10:35 AM

THIS OBSERVATION
DATE: 7/31/86
TIME: 11:36 AM

) 	 	 	PASSE	PASSENGER CARS	RS] 			TRUCKS		
		ALL	ALL	INDIANA	ANA	I-NON	NON-INDIANA	I ♥	ALL	<5000	O LBS.	>5000	O LBS.
OBSERVATION	LION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICLES (MPH)	345 57.31 5.348	316 58,34 4,360	305 57.23 5.404	283 58.05 4.117	40 57.88 4.926	33 60.88 5.516	178 56.34 4.588	196 57.84 4.808	94 56.04 4.250	129 57.88 4.849	84 56.68 4.943	67 57.78 4.764
) 	24 MPH 29 MPH	0.0	0.0	0	0.0	000	0	0.0	0.0	0.0	0 0	0	
	34 MPH 39 MPH	0.0	000	0.0	00	00	000	00	000	0 0	0 0	00	00
PERCENT		2.0	0.0	2.0	0	2,5		9.0	0 <	1,1	0 0	0 1	0 4
VEHICLES		24.6	16.1	26.2	17.3	12.5	6.1	30.3	21.4	30.9	19.4	29.8	25.4
TRAVELING	59 MPH	67.8	63.3	67.2	65.7	72.5	42.4	75.8	65.8	81.9	68.2	0.69	61.2
LESS THAN	H-JW 79	92.5	93.0	92.1	0.46	95.0	84.8	9.96	92.9	0.86 0.86	91.5	94.0	95.5
EQUAL TO		99.7	4.66	100.0	100.0	97.5	93.9	100.0	100.0	100.0	100.0	100.0	100.0
		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84 MPH 89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION: N	NB ES	198	176	171	153	27	23	85	96	45	65	707	31
AVERAGE	AVERAGE SPEED	56.61	58.41	56.47	57.89	57.48	61.87	55.65	57.64	55.58	58.09	55.72	56.68
# OF VEHICLES A\ ERAGE	[+1 [+1	147 58.24	140	134	130	13	10	93	100	49	64 57.66	44 57.54	36

STATION: UI-ALL HI

HIGHWAY: URBAN INTERSTATE

THIS OBSERVATION
DATE: JULY TO AUGUST 1986

	0 LBS.	PRES- ENT	226 58.11 3.932	0. 0. 0. 0. 1.3 16.4 66.4 95.6 99.6 100.0
	>5000	LAST	356 57.32 4.042	0. 0. 0.3 3.4 20.8 73.0 95.8 99.7 100.0 100.0
TRUCKS	<5000 LBS.	PRES- ENT	260 59.72 4.789	0. 0. 0. 0.4 2.3 13.1 45.4 84.6 97.3 100.0
	<500	LAST	183 58.37 4.095	0. 0. 0. 0. 0.5 15.8 64.5 92.3 99.5 100.0
	ALL	PRES- ENT	486 58.97 4.480	0.00.00.00.00.00.00.00.00.00.00.00.00.0
i i 1 1 1 1 1	Ϋ́	LAST	539 57.68 4.086	0. 0. 0. 0.2 2.4 19.1 70.1 94.6 99.6 100.0
	NON-INDIANA	PRES- ENT	209 60.33 4.031	0. 0. 0. 0. 0. 0. 7.7 42.1 84.2 99.0 100.0
SS	NON-II	LAST	305 59.34 4.267	0. 0. 0. 0. 0. 1.3 9.2 54.4 89.5 98.4 99.7
NGER CARS	ANA	PRES- ENT	546 60.10 4.895	0. 0. 0. 0. 1.5 11.7 46.7 46.7 83.0 96.3 99.3
PASSENGER	INDIANA	LAST	483 59.50 5.043	0. 0. 0. 0. 0. 15.1 52.4 84.9 97.1 99.4
))))		PRES- ENT	755 60.16 4.670	0. 0. 0. 0. 0. 1.1 10.6 45.4 83.3 97.1 99.9
	ALL	LAST	788 59.44 4.756	0. 0. 0. 0. 2.0 12.8 53.2 86.7 97.6 99.5
		NOI	/EHICLES (MPH)	24 MPH 34 MPH 44 MPH 49 MPH 49 MPH 59 MPH 64 MPH 64 MPH 74 MPH 79 MPH 88 MPH 89 MPH
		OBSERVATION	NUMBER OF VEHICLES 788 AVE. SPEED (MPH) 59.44 STANDARD DEVIATION 4.756	PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO

STATION: RI-ALL

HIGHWAY: RURAL INTERSTATE

LAS THIS OBSERVATION
DATE: MAY TO AUGUST 1986

119)	
NO.	
REPORT	
(SPEED	1985
	BER
OBSERVATION	SEPTEMBER
BSEF	T0
	JULY
PREVIOUS	DATE:
AST	

OBSERVATION LAST NUMBER OF VEHICLES 1363 AVE. SPEED (MPH) 59.53 STANDARD DEVIATION 4.470	N ICLES	i }											
OBSERVATIO NUMBER OF VEH AVE. SPEED (M	N ICLES	ALL	1	INDIANA	 ANA	I-NON	NON-INDIANA	I 4	ALL	<5000	O LBS.	>5000	0 LBS.
NUMBER OF VEH AVE. SPEED (M STANDARD DEVI	ICLES	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
	ATION	1363 59.53 4.470	1493 60.54 4.176	885 59.24 4.476	927 60.30 4.163	478 60.06 4.415	566 60.94 4.170	810 57.72 4.286	839 59.33 4.137	302 57.98 4.884	465 59.87 4.410	508 57.56 3.885	374 58.66 3.667
24	1	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
24	MPH	. 0		. 0	. 0			. 0	. 0	• •	. 0	• • • •	• •
39		0	0	0	0.	0	0	0	0	0	0	0	0
PERCENT 44		0.1	0.1	0.2	0.	0	0.2	0.1	0	0.3	0	0	0
		1.0	0.5	1.2	9.0	0.4	7.0	2.2	9.0	3,3	9.0	1.6	0.5
VEHICLES 54		11.6	0.9	12.7	4.9	9.6	5.3	21.2	9.7	22.5	8.4	20.5	11.2
		51.9	40.5	54.8	43.7	46.7	35.2	68.3	54.2	63.6	48.8	71.1	61.0
		86.7	84.9	88.0	86.0	84.3	83.2	94.2	88.8	91.7	85.6	95.7	95.8
		98.7	97.3	6.86	97.5	98.3	8.96	99.1	98.5	98.3	97.4	9.66	66.7
EQUAL TO 74	MPH	66.7	66.7	7.66	6.66	8.66	99.5	6.66	8.66	7.66	9.66	100.0	100.0
79	MPH	100.0	6.66	100.0	6.66	0.001	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84	MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
89	MPH	100.0	100.0	100.0	100.0	100.0	100.0	0.001	100.0	100.0	100.0	100.0	100.0

STATION: 4L-ALL HIGHWAY: 4-LANE

DATE: MAY TO AUGUST 1986

THIS OBSERVATION

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 119)
DATE: JULY TO SEPTEMBER 1985

				PASSE	ASSENGER CA	CARS				 	TRUCKS		
) 	ALL	,L	INDIANA	ANA	NON-1	NON-INDIANA	I 4	ALL	<5000	O LBS.	>5000	0 LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES 1392 AVE. SPEED (MPH) 57.17 STANDARD DEVIATION 4.721	VEHICLES (MPH) EVIATION	1392 57.17 4.721	1420 58.96 4.768	1096 56.87 4.690	1098 58.74 4.758	296 58.28 4.675	322 59.70 4.735	888 55.85 5.646	844 56.99 4.996	439 56.29 5.404	525 57.03 4.975	449 55.41 5.847	319 56.92 5.038
PERCENT OF VEHICLES TRAVELING LESS THAN OR EQUAL TO	24 MPH 39 MPH 44 MPH 49 MPH 54 MPH 59 MPH 69 MPH 69 MPH 74 MPH 79 MPH 84 MPH	0. 0.1 0.1 0.8 5.5 5.5 70.4 94.3 99.4 99.0	0.0 0.1 1.8 16.2 56.1 89.2 98.2 99.6 99.6	0.0 0.1 0.2 1.0 6.0 29.0 72.4 95.3 99.5 100.0	0.0 0.1 2.2 16.7 58.5 89.9 98.4 99.7	0.00.000000000000000000000000000000000	0.00.00.000.00000000000000000000000000	0.0 0.1 0.6 4.5 111.1 38.7 75.5 94.4 99.3 100.0	0.0 0.1 1.2 6.9 28.8 70.1 93.8 99.3 99.3	0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	0.00.000000000000000000000000000000000	0.02 0.2 1.1 7.1 13.1 40.3 77.1 95.5 99.8 100.0 100.0	0. 0. 0.3 2.5 7.8 26.6 68.3 99.7 100.0 100.0

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STATE STATE STATES

STATION: 2L-ALL HIGHWAY: 2-LANE

THIS OBSERVATION DATE: JUNE TO AUGUST 1986

 			 	PASSENGER	NGER CARS	RS					TRUCKS	1 	
		ALL	T	INDIANA	ANA	NON-I	NON-INDIANA	A	ALL	<5000	0 LBS.	>5000	O LBS.
OBSERVATION	TION	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEVIATION	1538 55.73 5.626	1291 57.23 4.839	1411 55.75 5.614	1161 57.12 4.766	127 55.54 5.780	130 58.21 5.368	773 54.78 5.320	800 56.16 5.163	450 55.44 4.888	503 56.50 5.150	323 53.87 5.751	297 55.58 5.141
# C C C C C C C C C C C C C C C C C C C	24 MPH 29 MPH 34 MPH 39 MPH	0.00.4	0000	0000	0000	0000	00000	0000	0000-	0000-	0000-	0000	00000
PERCENT OF VEHICLES	44 49 54	2./ 11.8 38.7	0.4 4.3 26.6	2.4 11.6 39.1	0.4 4.2 27.3	5.5 13.4 34.6	0. 5.4 20.8	3.9 14.0 44.6	1.8 9.3 35.1	1.8 9.1 39.3	7.8	20.7	11.8
TRAVELING LESS THAN	59	77.8	71.3	77.6	72.4	79.5	62.3 90.0	82.9	77.1	81.6	77.5	84.8	76.4
OR EQUAL TO	69 74 79	98.6 99.5 99.9	98.5 99.8 100.0	98.7 99.6 99.9	98.7 99.9 100.0	98.4 99.2 100.0	96.2 98.5 100.0	99.2 99.9 100.0	98.9 100.0 100.0	98.9 99.8 100.0	98.4 100.0 100.0	99.7 100.0 100.0	99.7 100.0 100.0
	84 MPH 89 MPH	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE A19:SPEED DATA

HIGHWAY: URBAN INTERSTATE RURAL INTERSTATE STATION: ALL-14

4-LANE 2-LANE

THIS OBSERVATION
DATE: MAY TO AUGUST 1986

	O LBS.	PRES- ENT	1216 57.35 4.640	0.0	0.	1.2	5.3	23.8	67.7	8.46	2.66	100.0	100.0	100.0	100.0
	>5000	LAST	1636 56.19 5.119	000	0.1	3.4	8.9	32.2	75.9	0.96	66.7	100.0	100.0	100.0	100.0
TRUCKS	O LBS.	PRES- ENT	1753 58.03 5.082	00	000	9.0	4.6	22.0	63.3	0.06	98.2	8.66	100.0	100.0	100.0
	<5000	LAST	1374 56.66 5.087	00	• •	1.2	6.7	31.8	72.9	0.46	98.8	8.66	100.0	100.0	100.0
	ALL	PRES- ENT	2969 57.75 4.917	00	0 0	8.0	6.4	22.8	65.1	92.0	98.8	6.66	100.0	100.0	100.0
	A	LAST	3010 56.41 5.109	00	000	2.4	7.9	32.0	74.5	95.0	99°3	6°66	100.0	100.0	100.0
	NON-INDIANA	PRES- ENT	1227 60.22 4.518	00	•	0.1	0.9	8.6	42.5	85.0	97.3	99.5	6.66	100.0	100.0
RS	I-NON	LAST	1206 58.97 4.797	0 0	00	0.6	2.7	14.1	56.1	88.4	98.4	7.66	100.0	100.0	100.0
NGER CARS	ANA	PRES- ENT	3732 58.82 4.817	0	• •	0.2	2.3	16.7	57.4	88.9	0.86	7.66	6.66	100.0	100.0
PASSENGER	INDIANA	LAST	3875 57.33 5.274	0 0	0 0	1.2	6.5	27.2	8.79	91.9	98.8	7.66	6.66	100.0	100.0
		PRES- ENT	4959 59.17 4.783	00	• •	0.1	2.0	15.0	53.7	88.0	8.76	7.66	6.66	100.0	100.0
	ALL	LAST	5081 57.72 5.211	0	0 0	1.1	5.6	24.1	65.0	91.1	98.7	7.66	100.0	100.0	100.0
		TION	ES N	24 MPH 29 MPH		44 MPH				94 MPH	44 69 WPH	74 MPH	79 MPH	84 MPH	89 MPH
		OBSERVATION	NUMBER OF VEHICLES 5081 AVE. SPEED (MPH) 57.72 STANDARD DEVIATION 5.211			PERCENT	OF	VEHICLES	TRAVELING	LESS THAN	OR	EQUAL TO			

TABLE A20:SPEED DATA

HIGHWAY: RURAL INTERSTATE 4-LANE 2-LANE STATION: RURALL

THIS OBSERVATION
DATE: MAY TO AUGUST 1986

		İ			PASSENGER	NGER CARS	RS	1 1 1 1 1	1			TRUCKS		
			ALL	7	INDIANA	ANA	NON-I	NON-INDIANA	A	ALL	<5000	0 LBS.	>5000	0 LBS.
OBSERVATION	TION		LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT	LAST	PRES- ENT
NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION	VEHICL (MPH) EVIATI	1	4293 57.40 5.230	4204 58.99 4.782	3392 57.02 5.234	3186 58.60 4.771	901 58.84 4.960	1018 60.20 4.614	2471 56.13 5.266	2483 57.51 4.964	1191 56.40 5.175	1493 57.74 5.076	1280 55.88 5.340	990 57.18 4.771
	1		0000	0000	0.000	0000	0000	0000	0.0	0000	0000	0000	0. 0.1 0.5	0000
PERCENT OF	44 MPH 49 MPH	HC:	1.3 6.3	0.2	1.4	0.2	3.2	0.1	2.9	1.0	1.4	5.0	4.2	1.4
VEHICLES TRAVELING LESS THAN		на На	26.2 67.2 91.9	15.8 55.2 88.8	28.9 70.0 92.9	17.5 59.2 90.0	15.8 56.7 88.0	10.2 42.6 85.2	34.8 75.4 95.1	24.4 67.0 92.4	34.3 74.1 94.2	6.06 90.9	76.6 96.0	9°76 0°89 0°76
OR EOUAL TO		РН	98.9	97.9	99.0	98.2	98.4	97.0	99.2	98.9	98.7	98.3	99.7	99.7
	79 MPH 84 MPH 89 MPH		100.0	99.9 100.0 100.0	99.9 100.0 100.0	99.9 100.0 100.0	100.0 100.0 100.0	99.9 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 100.0	100.0

